

**SAMPLE NAME: Heart and Immunity Treats 600mg**

Infused, Solid Edible

**CULTIVATOR / MANUFACTURER**
**Business Name:**
**License Number:**
**Address:**
**DISTRIBUTOR / TESTED FOR**
**Business Name:** Penelope's Bloom

**License Number:**
**Address:**

**SAMPLE DETAIL**
**Batch Number:** 332023-6

**Sample ID:** 230511N014

**Date Collected:** 05/11/2023

**Date Received:** 05/11/2023

**Batch Size:**
**Sample Size:** 1.0 units

**Unit Mass:** 300 grams per Unit

**Serving Size:** 10 grams per Serving


Scan QR code to verify authenticity of results.

**CANNABINOID ANALYSIS - SUMMARY**
**Total THC:** **Not Detected**
**Total CBD:** **625.7100 mg/unit**
**Sum of Cannabinoids:** **632.9700 mg/unit**
**Total Cannabinoids:** **632.9700 mg/unit**

Total THC/CBD is calculated using the following formulas to take into account the loss of a carboxyl group during the decarboxylation step:

$$\text{Total THC} = \Delta^9\text{-THC} + (\text{THCa} \cdot 0.877)$$

$$\text{Total CBD} = \text{CBD} + (\text{CBDa} \cdot 0.877)$$

$$\text{Sum of Cannabinoids} = \Delta^9\text{-THC} + \text{THCa} + \text{CBD} + \text{CBDa} + \text{CBG} + \text{CBGa} +$$

$$\text{THCV} + \text{THCVa} + \text{CBC} + \text{CBCa} + \text{CBDV} + \text{CBDVa} + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$

$$\text{Total Cannabinoids} = (\Delta^9\text{-THC} + 0.877 \cdot \text{THCa}) + (\text{CBD} + 0.877 \cdot \text{CBDa}) +$$

$$(\text{CBG} + 0.877 \cdot \text{CBGa}) + (\text{THCV} + 0.877 \cdot \text{THCVa}) + (\text{CBC} + 0.877 \cdot \text{CBCa}) +$$

$$(\text{CBDV} + 0.877 \cdot \text{CBDVa}) + \Delta^8\text{-THC} + \text{CBL} + \text{CBN}$$
**TERPENOID ANALYSIS - SUMMARY**
**39 TESTED, TOP 3 HIGHLIGHTED**
**Total Terpenoids:** **ND**
**SAFETY ANALYSIS - SUMMARY**
 $\Delta^9\text{-THC}$  per Unit: **PASS**
 $\Delta^9\text{-THC}$  per Serving: **PASS**

 Pesticides: **PASS**


 Heavy Metals: **PASS**

For quality assurance purposes. Not a Regulatory Hemp Lab Test Report. These results relate only to the sample included on this report. This report shall not be reproduced, except in full, without written approval of the laboratory.

**Sample Certification:** California Code of Regulations Title 4 Division 19. Department of Cannabis Control Business and Professions Code. Reference: Sections 26100, 26104 and 26110, Business and Professions Code.

**Decision Rule:** Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without taking measurement uncertainty into account. Where statements of conformity are made in this report, the following decision rules are applied: PASS - Results within limits/specifications, FAIL - Results exceed limits/specifications.

**References:** limit of detection (LOD), limit of quantification (LOQ), not detected (ND), not tested (NT)

  
 LQC verified by: Kevin Flores  
 Job Title: Senior Laboratory Analyst  
 Date: 05/15/2023

  
 Approved by: Josh Wurzer  
 Job Title: Chief Compliance Officer  
 Date: 05/15/2023



## Cannabinoid Analysis

Tested by high-performance liquid chromatography with diode-array detection (HPLC-DAD).

†Analytes not part of our ISO/IEC 17025 scope of accreditation.

**Method:** LA-SOP-101 Cannabinoid Analysis by HPLC-DAD

### TOTAL THC: **Not Detected**

Total THC ( $\Delta^9$ -THC+0.877\*THCa)

### TOTAL CBD: **625.7100 mg/unit**

Total CBD (CBD+0.877\*CBDa)

### TOTAL CANNABINOIDS: **632.9700 mg/unit**

Total Cannabinoids (Total THC) + (Total CBD) + (Total CBG) + (Total THCV) + (Total CBC) + (Total CBDV) +  $\Delta^8$ -THC + CBL + CBN

### TOTAL CBG: **1.8300 mg/unit**

Total CBG (CBG+0.877\*CBGa)

### TOTAL THCV: **ND**

Total THCV (THCV+0.877\*THCVa)

### TOTAL CBC: **ND**

Total CBC (CBC+0.877\*CBCa)

### TOTAL CBDV: **4.5300 mg/unit**

Total CBDV (CBDV+0.877\*CBDVa)

## CANNABINOID TEST RESULTS - 05/12/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
CBD	0.0010 / 0.0029	±0.00855	2.0857	0.20857
CBDV	0.0015 / 0.0046	±0.00010	0.0151	0.00151
CBG	0.0009 / 0.0028	±0.00002	0.0061	0.00061
CBN	0.0005 / 0.0021	±0.00001	0.0030	0.00030
$\Delta^9$ -THC	0.0014 / 0.0042	N/A	ND	ND
$\Delta^8$ -THC	0.0010 / 0.0029	N/A	ND	ND
THCa	0.0004 / 0.0021	N/A	ND	ND
THCV	0.0006 / 0.0021	N/A	ND	ND
THCVa	0.0008 / 0.0023	N/A	ND	ND
CBDa	0.0006 / 0.0021	N/A	ND	ND
CBDVa	0.0005 / 0.0021	N/A	ND	ND
CBGa	0.0007 / 0.0022	N/A	ND	ND
CBL†	0.0013 / 0.0045	N/A	ND	ND
CBC	0.0008 / 0.0025	N/A	ND	ND
CBCa	0.0005 / 0.0021	N/A	ND	ND
<b>SUM OF CANNABINOIDS</b>			<b>2.1099 mg/g</b>	<b>0.21099%</b>

## Unit Mass: 300 grams per Unit / Serving Size: 10 grams per Serving

$\Delta^9$ -THC per Unit	110 per-package limit	ND	PASS
$\Delta^9$ -THC per Serving		ND	PASS
Total THC per Unit		ND	
Total THC per Serving		ND	
CBD per Unit		625.7100 mg/unit	
CBD per Serving		20.8570 mg/serving	
Total CBD per Unit		625.7100 mg/unit	
Total CBD per Serving		20.8570 mg/serving	
Sum of Cannabinoids per Unit		632.9700 mg/unit	
Sum of Cannabinoids per Serving		21.0990 mg/serving	
Total Cannabinoids per Unit		632.9700 mg/unit	
Total Cannabinoids per Serving		21.0990 mg/serving	




## Terpenoid Analysis

Terpene analysis utilizing gas chromatography-flame ionization detection (GC-FID).

**Method:** LA-SOP-201 Terpene Analysis by GC-FID (Note: this test is not included as part of our ISO/IEC 17025 scope of accreditation)

### TERPENOID TEST RESULTS - 05/15/2023

COMPOUND	LOD/LOQ (mg/g)	MEASUREMENT UNCERTAINTY (mg/g)	RESULT (mg/g)	RESULT (%)
α-Pinene	0.01 / 0.033	N/A	ND	ND
Camphene	0.01 / 0.035	N/A	ND	ND
Sabinene	0.012 / 0.04	N/A	ND	ND
β-Pinene	0.012 / 0.041	N/A	ND	ND
Myrcene	0.012 / 0.041	N/A	ND	ND
α-Phellandrene	0.012 / 0.041	N/A	ND	ND
Δ <sup>3</sup> -Carene	0.007 / 0.023	N/A	ND	ND
α-Terpinene	0.007 / 0.023	N/A	ND	ND
p-Cymene	0.006 / 0.021	N/A	ND	ND
Limonene	0.007 / 0.024	N/A	ND	ND
Eucalyptol	0.008 / 0.028	N/A	ND	ND
β-Ocimene	0.012 / 0.041	N/A	ND	ND
γ-Terpinene	0.009 / 0.029	N/A	ND	ND
Sabinene Hydrate	0.013 / 0.042	N/A	ND	ND
Fenchone	0.02 / 0.068	N/A	ND	ND
Terpinolene	0.019 / 0.063	N/A	ND	ND
Linalool	0.022 / 0.073	N/A	ND	ND
Fenchol	0.031 / 0.102	N/A	ND	ND
Isopulegol	0.009 / 0.031	N/A	ND	ND
Camphor	0.009 / 0.031	N/A	ND	ND
Isoborneol	0.007 / 0.024	N/A	ND	ND
Borneol	0.007 / 0.023	N/A	ND	ND
Menthol	0.024 / 0.078	N/A	ND	ND
Terpineol	0.033 / 0.112	N/A	ND	ND
Nerol	0.005 / 0.017	N/A	ND	ND
Citronellol	0.005 / 0.017	N/A	ND	ND
Pulegone	0.007 / 0.022	N/A	ND	ND
Geraniol	0.006 / 0.020	N/A	ND	ND
Geranyl Acetate	0.01 / 0.032	N/A	ND	ND
α-Cedrene	0.009 / 0.029	N/A	ND	ND
β-Caryophyllene	0.006 / 0.02	N/A	ND	ND
trans-β-Farnesene	0.011 / 0.035	N/A	ND	ND
α-Humulene	0.012 / 0.039	N/A	ND	ND
Valencene	0.025 / 0.083	N/A	ND	ND
Nerolidol	0.015 / 0.05	N/A	ND	ND
Caryophyllene Oxide	0.008 / 0.026	N/A	ND	ND
Guaiol	0.007 / 0.022	N/A	ND	ND
Cedrol	0.018 / 0.058	N/A	ND	ND
α-Bisabolol	0.014 / 0.046	N/A	ND	ND
<b>TOTAL TERPENOIDS</b>			<b>ND</b>	<b>ND</b>



## Pesticide Analysis

PESTICIDE TEST RESULTS - 05/15/2023 ✔ PASS

Pesticide and plant growth regulator analysis utilizing high-performance liquid chromatography-mass spectrometry (HPLC-MS) or gas chromatography-mass spectrometry (GC-MS).

\*GC-MS utilized where indicated.

**Method:** LA-SOP-301 Pesticides & Mycotoxins Analysis by LC-MS or LA-SOP-302 Pesticides Analysis by GC-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Abamectin	0.0330 / 0.0990	0.3	N/A	ND	PASS
Acephate	0.0270 / 0.0810	5	N/A	ND	PASS
Acequinocyl	0.0270 / 0.0820	4	N/A	ND	PASS
Acetamiprid	0.0240 / 0.0730	5	N/A	ND	PASS
Aldicarb	0.0260 / 0.0770	≥ LOD	N/A	ND	PASS
Azoxystrobin	0.0160 / 0.0500	40	N/A	ND	PASS
Bifenazate	0.0240 / 0.0740	5	N/A	ND	PASS
Bifenthrin	0.1650 / 0.4990	0.5	N/A	ND	PASS
Boscalid	0.0260 / 0.0800	10	N/A	ND	PASS
Captan*	0.0970 / 0.2940	5	N/A	ND	PASS
Carbaryl	0.0370 / 0.1130	0.5	N/A	ND	PASS
Carbofuran	0.0260 / 0.0800	≥ LOD	N/A	ND	PASS
Chlorantraniliprole	0.0530 / 0.1620	40	N/A	ND	PASS
Chlordane*	0.0300 / 0.0900	≥ LOD	N/A	ND	PASS
Chlorfenapyr*	0.0160 / 0.0490	≥ LOD	N/A	ND	PASS
Chlorpyrifos	0.0110 / 0.0330	≥ LOD	N/A	ND	PASS
Clofentezine	0.0290 / 0.0870	0.5	N/A	ND	PASS
Coumaphos	0.0290 / 0.0890	≥ LOD	N/A	ND	PASS
Cyfluthrin	0.1940 / 0.5870	1	N/A	ND	PASS
Cypermethrin	0.0490 / 0.1480	1	N/A	ND	PASS
Daminozide	0.0260 / 0.0780	≥ LOD	N/A	ND	PASS
Diazinon	0.0220 / 0.0670	0.2	N/A	ND	PASS
Dichlorvos (DDVP)	0.0070 / 0.0220	≥ LOD	N/A	ND	PASS
Dimethoate	0.0190 / 0.0580	≥ LOD	N/A	ND	PASS
Dimethomorph	0.0700 / 0.2120	20	N/A	ND	PASS
Ethoprophos	0.0300 / 0.0920	≥ LOD	N/A	ND	PASS
Etofenprox	0.0290 / 0.0870	≥ LOD	N/A	ND	PASS
Etoxazole	0.0240 / 0.0730	1.5	N/A	ND	PASS
Fenhexamid	0.0150 / 0.0460	10	N/A	ND	PASS
Fenoxycarb	0.0330 / 0.1000	≥ LOD	N/A	ND	PASS
Fenpyroximate	0.0080 / 0.0250	2	N/A	ND	PASS
Fipronil	0.0170 / 0.0530	≥ LOD	N/A	ND	PASS
Flonicamid	0.0120 / 0.0370	2	N/A	ND	PASS
Fludioxonil	0.0300 / 0.0910	30	N/A	ND	PASS
Hexythiazox	0.0150 / 0.0460	2	N/A	ND	PASS
Imazalil	0.0310 / 0.0950	≥ LOD	N/A	ND	PASS
Imidacloprid	0.0400 / 0.1220	3	N/A	ND	PASS
Kresoxim-methyl	0.0290 / 0.0890	1	N/A	ND	PASS
Malathion	0.1370 / 0.4160	5	N/A	ND	PASS
Metalaxyl	0.0600 / 0.1820	15	N/A	ND	PASS
Methiocarb	0.0090 / 0.0260	≥ LOD	N/A	ND	PASS

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### Pesticide Analysis *Continued*

PESTICIDE TEST RESULTS - 05/15/2023 *continued* ✔ PASS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Methomyl	0.0130 / 0.0390	0.1	N/A	ND	PASS
Mevinphos	0.0180 / 0.0550	≥ LOD	N/A	ND	PASS
Myclobutanil	0.0320 / 0.0980	9	N/A	ND	PASS
Naled	0.0160 / 0.0480	0.5	N/A	ND	PASS
Oxamyl	0.0380 / 0.1160	0.2	N/A	ND	PASS
Paclobutrazol	0.0320 / 0.0980	≥ LOD	N/A	ND	PASS
Parathion-methyl*	0.0240 / 0.0720	≥ LOD	N/A	ND	PASS
Pentachloronitrobenzene*	0.0270 / 0.0820	0.2	N/A	ND	PASS
Permethrin	0.0300 / 0.0900	20	N/A	ND	PASS
Phosmet	0.0300 / 0.0920	0.2	N/A	ND	PASS
Piperonyl Butoxide	0.0400 / 0.1210	8	N/A	ND	PASS
Prallethrin	0.0260 / 0.0790	0.4	N/A	ND	PASS
Propiconazole	0.0310 / 0.0940	20	N/A	ND	PASS
Propoxur	0.0220 / 0.0680	≥ LOD	N/A	ND	PASS
Pyrethrins	0.0590 / 0.1790	1	N/A	ND	PASS
Pyridaben	0.0240 / 0.0740	3	N/A	ND	PASS
Spinetoram	0.0210 / 0.0630	3	N/A	ND	PASS
Spinosad	0.0290 / 0.0880	3	N/A	ND	PASS
Spiromesifen	0.0320 / 0.0970	12	N/A	ND	PASS
Spirotetramat	0.0110 / 0.0330	13	N/A	ND	PASS
Spiroxamine	0.0330 / 0.0990	≥ LOD	N/A	ND	PASS
Tebuconazole	0.0200 / 0.0610	2	N/A	ND	PASS
Thiacloprid	0.0220 / 0.0660	≥ LOD	N/A	ND	PASS
Thiamethoxam	0.0360 / 0.1080	4.5	N/A	ND	PASS
Trifloxystrobin	0.0320 / 0.0970	30	N/A	ND	PASS



### Heavy Metals Analysis

HEAVY METALS TEST RESULTS - 05/12/2023 ✔ PASS

Heavy metal analysis utilizing inductively coupled plasma-mass spectrometry (ICP-MS).

Method: LA-SOP-502 Heavy Metals Analysis by ICP-MS

COMPOUND	LOD/LOQ (µg/g)	ACTION LIMIT (µg/g)	MEASUREMENT UNCERTAINTY (µg/g)	RESULT (µg/g)	RESULT
Arsenic	0.006 / 0.05	1.5	±0.001	0.11	PASS
Cadmium	0.003 / 0.05	0.5	N/A	<LOQ	PASS
Lead	0.010 / 0.05	0.5	N/A	<LOQ	PASS
Mercury	0.003 / 0.05	3	N/A	<LOQ	PASS